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LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX,
MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI,
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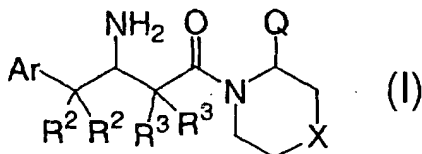
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For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

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(54) Title: DIPEPTIDYL PEPTIDASE INHIBITORS FOR THE TREATMENT OF DIABETES



(57) Abstract: Compounds having Formula (I), including pharma-
ceutically acceptable salts and prodrugs thereof are inhibitors of the
dipeptidyl peptidase-IV enzyme (DP-IV), and are useful in the treat-
ment of DP-IV mediated diseases and conditions, such as non-insulin
dependent diabetes mellitus.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/19441

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 31/445, 31/4453, 31/495, 31/496, 31/506, 31/517, 31/5375; C07D
211/32, 241/04, 265/30, 295/185, 401/04, 401/06, 403/04, 403/06, 405/10, 409/06, 417/04
US CL : 514/237.5, 252.13, 255.01, 330; 544/162, 376, 379, 391; 546/226

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 514/237.5, 252.13, 255.01, 330; 544/162, 376, 379, 391; 546/226

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
CAS ONLINE STRUCTURE SEARCH

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,386,090 A (MOINET et al.) 31 may 1983, see especially columns 5 and 6, Formulae XII and XVI and Table III, compound no. 122.	1-3, 6-10

☐

Further documents are listed in the continuation of Box C.

☐

See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

18 September 2002 (18.09.2002)

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Name and mailing address of the ISA/US

Commissioner of Patents and Trademarks
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/19441

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claim Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claim Nos.: 1-10 (in part), 11, 12-35 (in part)
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
Please See Continuation Sheet
3. ☐ Claim Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

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☐

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

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Continuation of Box I Reason 2:

The structural makeup of R variables as generically set forth in the claims result in a multitude of permutations which cannot be readily classified. The claims (1-10,12-35) have been searched based on the nature of the Ar variables. Claim 11 could not be searched since the functional language recited in this claim has not been particularly described in the description and thus no meaningful search as to this claim could be made.